

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in brewing materials of barley, malt or malting barley without performing fermentation, comprising the following steps:

1) a step for preparing yeast at late logarithmic growth phase or thereafter of late logarithmic growth phase, wherein a yeast used for brewing is cultured in a medium for yeast, and a proliferation curve of yeast is drawn, and yeasts that have attained the late logarithmic growth phase or thereafter are separated and collected, or the collected yeast is further cryopreserved;

2) a step for preparing a water extracted ~~[[-]]~~ high ~~[[-]]~~ molecular weight fraction of a test material sample of barley, malt or malting barley, wherein the test material sample is extracted with a water and precipitated by ethanol, or the test material sample is extracted with a water and separated a water extraction solution of the test material sample by dialysis, ultrafiltration or gel filtration;

3) a step for preparing a test system by mixing and suspending the yeast prepared in step 1) with the high ~~[[-]]~~ molecular weight fraction prepared in step 2), in a buffer solution; and

4) a step for measuring a precipitation level of the yeast in the test system which was mixed and suspended in the buffer solution in the above step 3) which indicate a degree of precipitation of the yeast in the test system, wherein the precipitation level of the yeast is measured by measuring optical density by using OD600.

2. (Canceled)

3. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim 1 ~~[[2]]~~, wherein the collected yeast in the step 1) is washed with EDTA.

4. (Canceled)

5. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim 1, wherein the high ~~[[-]]~~ molecular weight fraction ~~of in step 2)~~ ~~is a high-~~
~~molecular weight fraction prepared from~~ is prepared from a wort of the test material sample.

6. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim 1, wherein the test material sample is treated with enzyme during ~~extraction~~ the extraction in step 2), when preparing the water ~~[[-]]~~ extracted high ~~[[-]]~~ molecular weight fraction ~~of step 2)~~.

7. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim 1, wherein acetate buffer containing CaCl₂ is used as buffer solution ~~of in~~ step 3).

8. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials according to claim 1, wherein the precipitation level of yeast of step 4) is measured by measuring optical density by using OD600.

9. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim 1 ~~[[8]]~~, wherein the test system ~~mixed and suspended~~ in step 3) is allowed to stand for 15 ~~minutes~~ or more ~~[[,]]~~ after mixing and suspending the yeast with the high
molecular weight fraction in a buffer solution, and which system is further mixed and
suspended, and which system is ~~further mixed and suspended to measure~~ measured the ~~serial~~
~~change of optical density serially~~ serially by using OD600 in step 4), when measuring the serial
change of precipitation level of yeast in step 4).

10. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim 9, wherein the test system in step 3) is allowed to stand for 30 minutes or more after mixing and suspending the yeast with the high molecular weight fraction in a buffer solution ~~mixed and suspended in step 3) is allowed to stand for 30 min or more.~~

11. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim ~~[[8]]~~ 1, wherein the relative precipitation level of yeast of the test material sample is measured by using water or a ~~non-early~~ material which contain no early flocculating material as a sample instead of the test material sample ~~of in step 2)~~, and the measured serial change of optical density of the sample by using OD600 is used as a control to compare with the measured optical density by using OD600 of the test material sample, when measuring the precipitation level of yeast in step 4).

12. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim ~~[[8]]~~ 9, wherein the precipitation level of yeast is measured by measuring the optical density by using OD600 after allowing the test system in step 3) is allowed to stand still for 2 minutes or more after mixing and suspending the yeast with the high molecular weight fraction in a buffer solution, instead of measuring the serial change of optical density of the test sample by using OD600 after allowing the test system ~~mixed and precipitated in step 3) is allowed to stand for 15 minutes or more, and~~ which system is further mixed and suspended, when measuring the precipitation level of yeast in step 4).

13. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim 1, wherein the test material sample is barley, malt or malting barley.

14. (Currently amended) The method for ~~quickly~~ measuring factors causing early flocculation of yeast contained in the brewing materials without performing fermentation according to claim 1, wherein the water ~~[[-]]~~ extracted high ~~[[-]]~~ molecular weight fraction of

the test material sample in step 2) is a high ~~[[-]]~~ molecular weight fraction of an extraction solution wherein ground malt materials are extracted with water for 30 seconds or more, or a high ~~[[-]]~~ molecular weight fraction of an extraction solution wherein barley ~~[[-]]~~ ground materials or malting barley ground materials are extracted with water for 15 minutes or more.

15. (Canceled)

16. (Withdrawn) A method for manufacturing malt by using a method for quickly determining early flocculation property of yeast in brewing materials, wherein the malt manufacturing process is controlled by determining early flocculating property of barley as raw material, malting barley, or malt, by using the method for quickly measuring factors causing early flocculation of yeast contained in brewing materials according to claim 1.

17. (Withdrawn) A method for manufacturing fermented alcoholic beverages, wherein the brewing materials to be used are selected and adjusted by using the method for quickly measuring factors causing early flocculation factors contained in brewing materials according to claim 1 by determining the early flocculating property of the brewing materials.